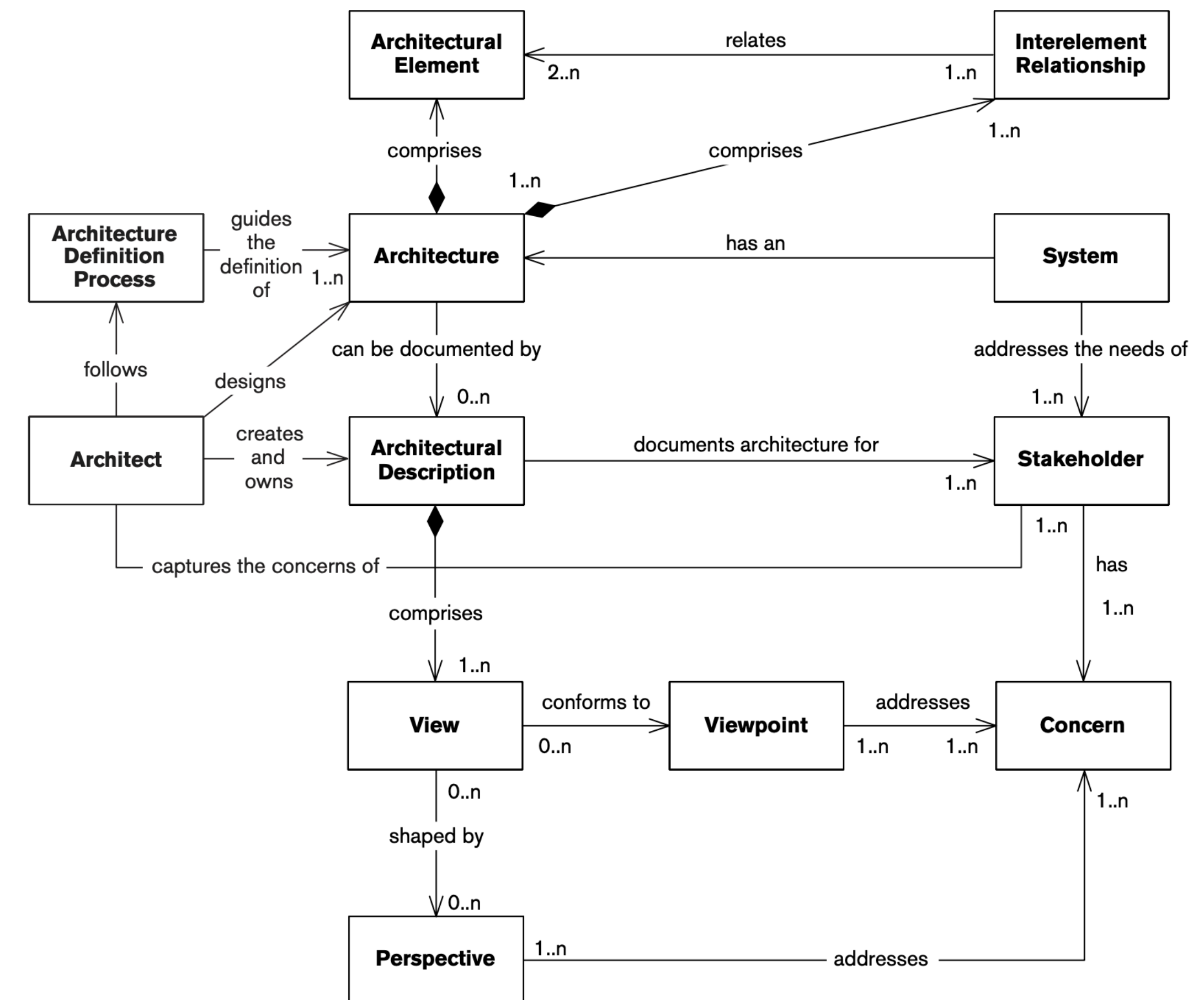# ARCHITECTURE DOCUMENTATION CASES
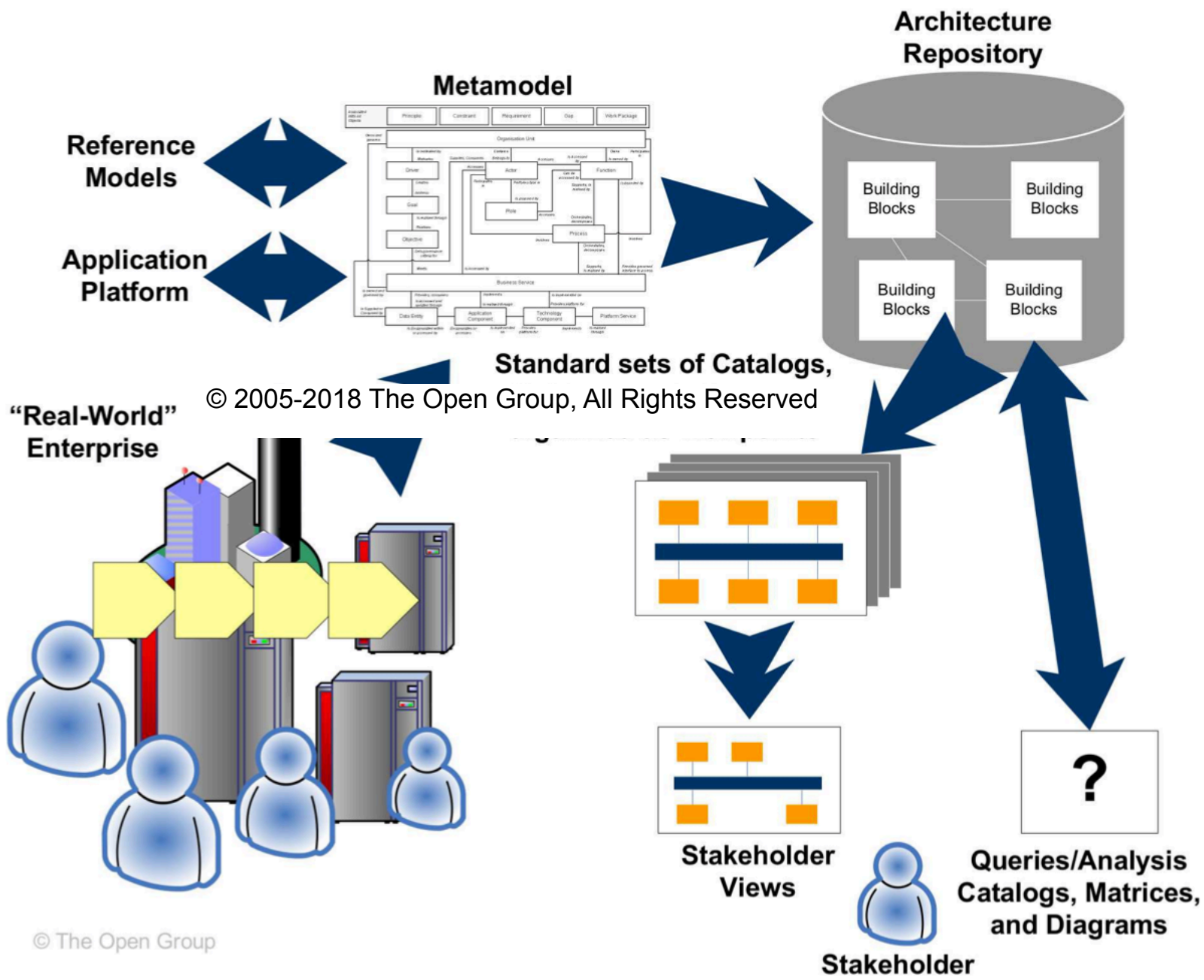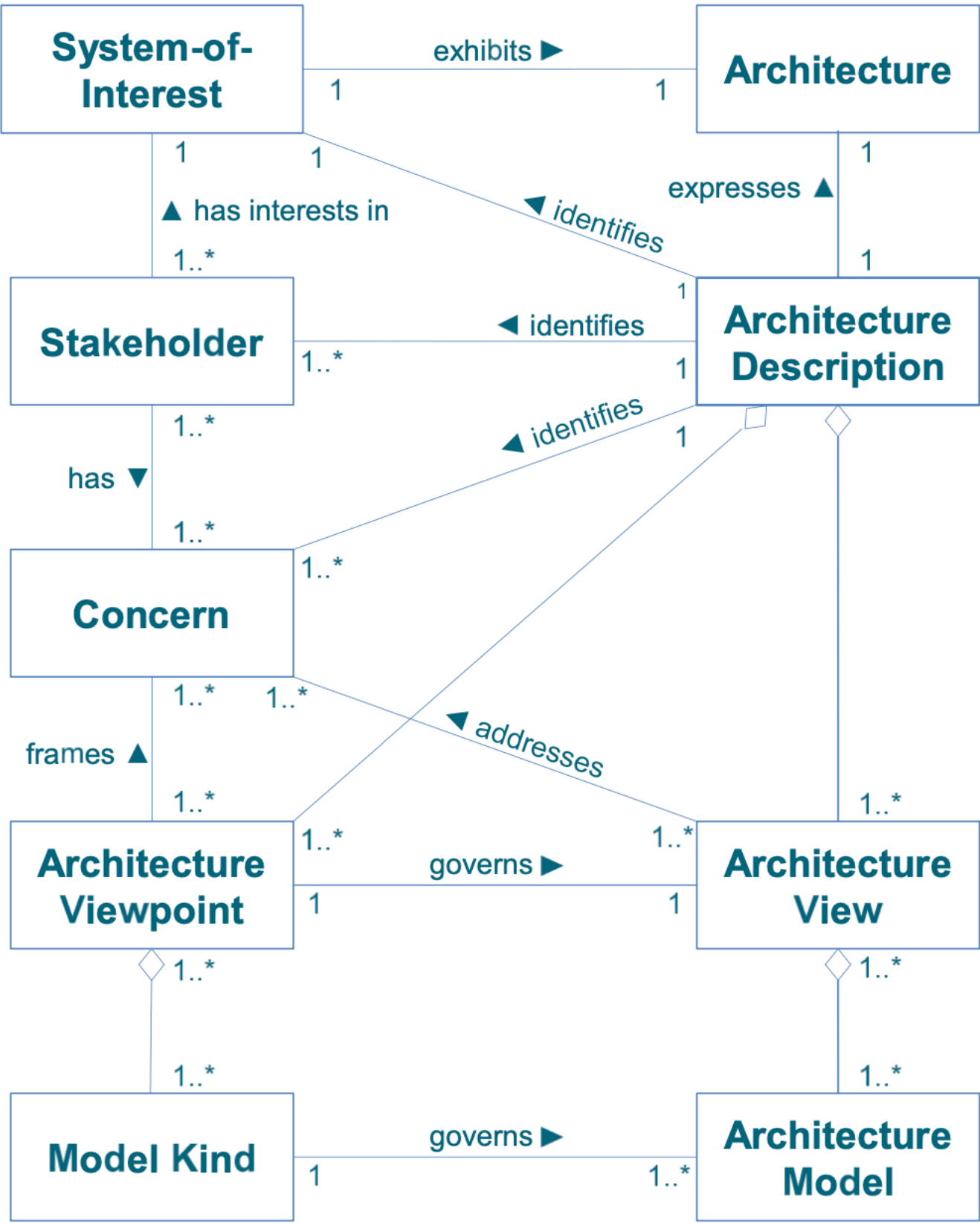
Eugene Naumenko/Dec 3, 2020

ARCHITECTURAL ARTIFACTS

- "An architectural description (AD) is a set of products that documents an architecture in a way its stakeholders can understand and demonstrates that the architecture has met their concerns."

- "Products" in this context consists of a range of things — particularly architectural models, but also scope definition, constraints, and principles."
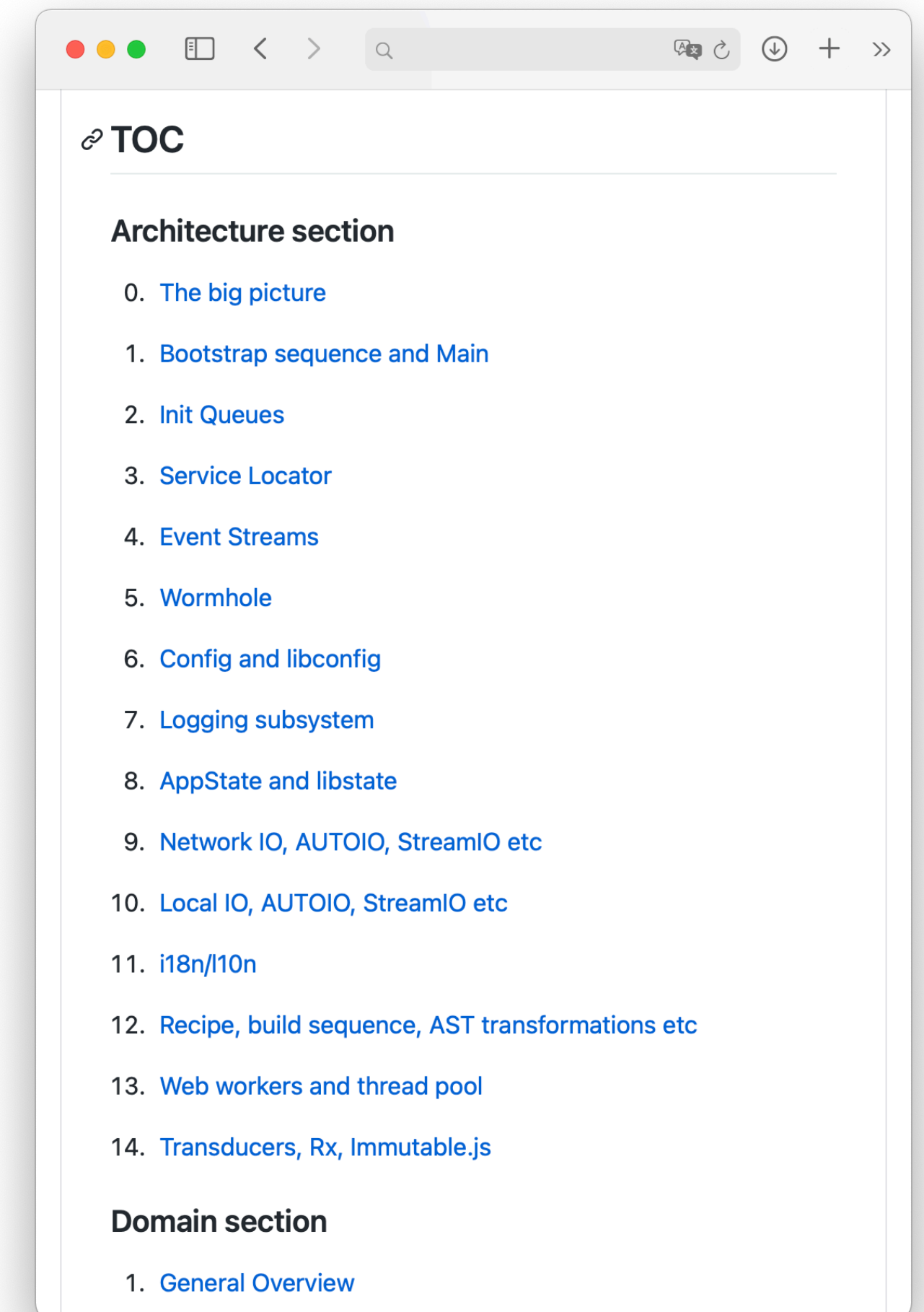
TOGAF

Left diagram (UML entity relationships):

- System-of-Interest — exhibits ▶ — Architecture (1, 1)
- System-of-Interest (1) ▲ has interests in (1..*) Stakeholder
- Architecture — expresses ▲ (1) — Architecture Description (1)
- ◀ identifies — Architecture Description
- Stakeholder (1..*) ◀ identifies (1) Architecture Description
- Concern — has ▼ (1..*)
- ◀ identifies (1) Architecture Description
- Concern (1..*) frames ▲ (1..*)
- ◀ addresses — Architecture Description
- Architecture Viewpoint (1..*) governs ▶ (1) — Architecture View (1..*, 1)
- Architecture Viewpoint (1..*) — Architecture View (1..*)
- Model Kind (1..*) — Architecture Viewpoint (1..*)
- Model Kind (1) governs ▶ (1..*) Architecture Model
- Architecture View (1..*) — Architecture Model (1..*)

Center diagram:

Reference Models, Application Platform → Metamodel → Architecture Repository (Building Blocks)

"Real-World" Enterprise — Standard sets of Catalogs,

Stakeholder Views — Queries/Analysis Catalogs, Matrices, and Diagrams — Stakeholder

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Deliverable table 1:

Deliverable
Architecture Building Blocks (see Section 32.2.1)
Architecture Contract (see Section 32.2.2)
Architecture Definition Document (see Section 32.2.3)
Architecture Principles (see Section 32.2.4)
Architecture Repository (see Section 32.2.5)
Architecture Requirements Specification (see Section 3
Architecture Roadmap (see Section 32.2.7)
Architecture Vision (see Section 32.2.8)

Deliverable table 2:

Deliverable
Business Principles, Business Goals, and Business Drivers (see Section 32.2.9)
Capability Assessment (see Section 32.2.10)
Change Request (see Section 32.2.11)
Communications Plan (see Section 32.2.12)
Compliance Assessment (see Section 32.2.13)
Implementation and Migration Plan (see Section 32.2.14)
Implementation Governance Model (see Section 32.2.15)
Organizational Model for Enterprise Architecture (see Section 32.2.16)
Request for Architecture Work (see Section 32.2.17)
Requirements Impact Assessment (see Section 32.2.18)
Solution Building Blocks (see Section 32.2.19)
Statement of Architecture Work (see Section 32.2.20)
Tailored Architecture Framework (see Section 32.2.21)

CASE 1: GIST DOCUMENTATION PROJECT

- Target audience: engineers

- A versioned "book" with contents and cross-references

- Architecture section

- Domain section

- Meta section

- Based on feedback loop, metrics & analytics

CASE 2: WARDLEY MAPS
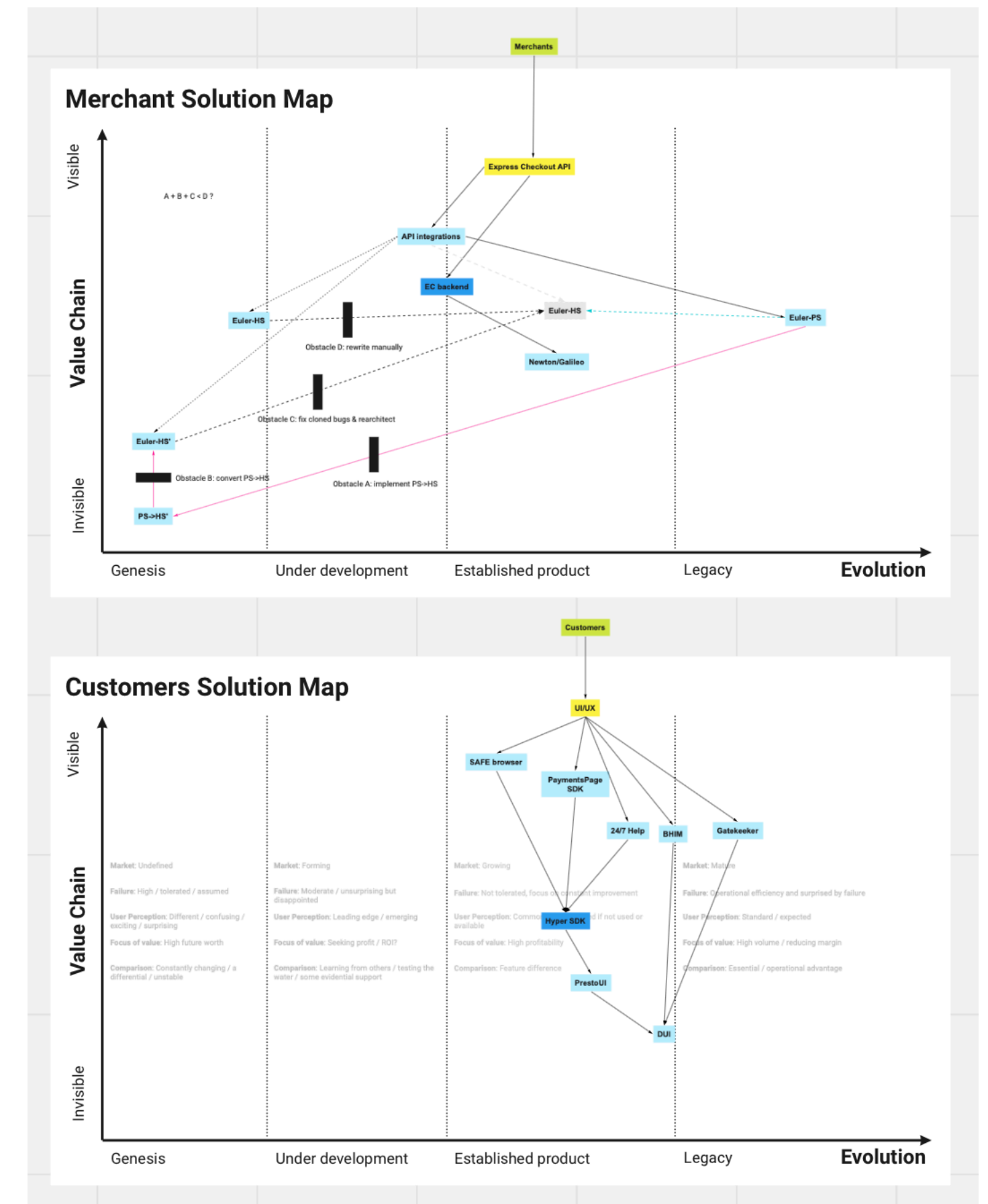
- Target audience: top management

- Visually explains and compares architectural decisions

- Visually explains obstacles and their severity

- Visually explains evolution drivers and priorities

CASE 3: BPMN & STATE MACHINE

- Target audience: stakeholders and decision makers

- Bridges together business processes architecture with engineering architecture

- Shared knowledge, single source of truth
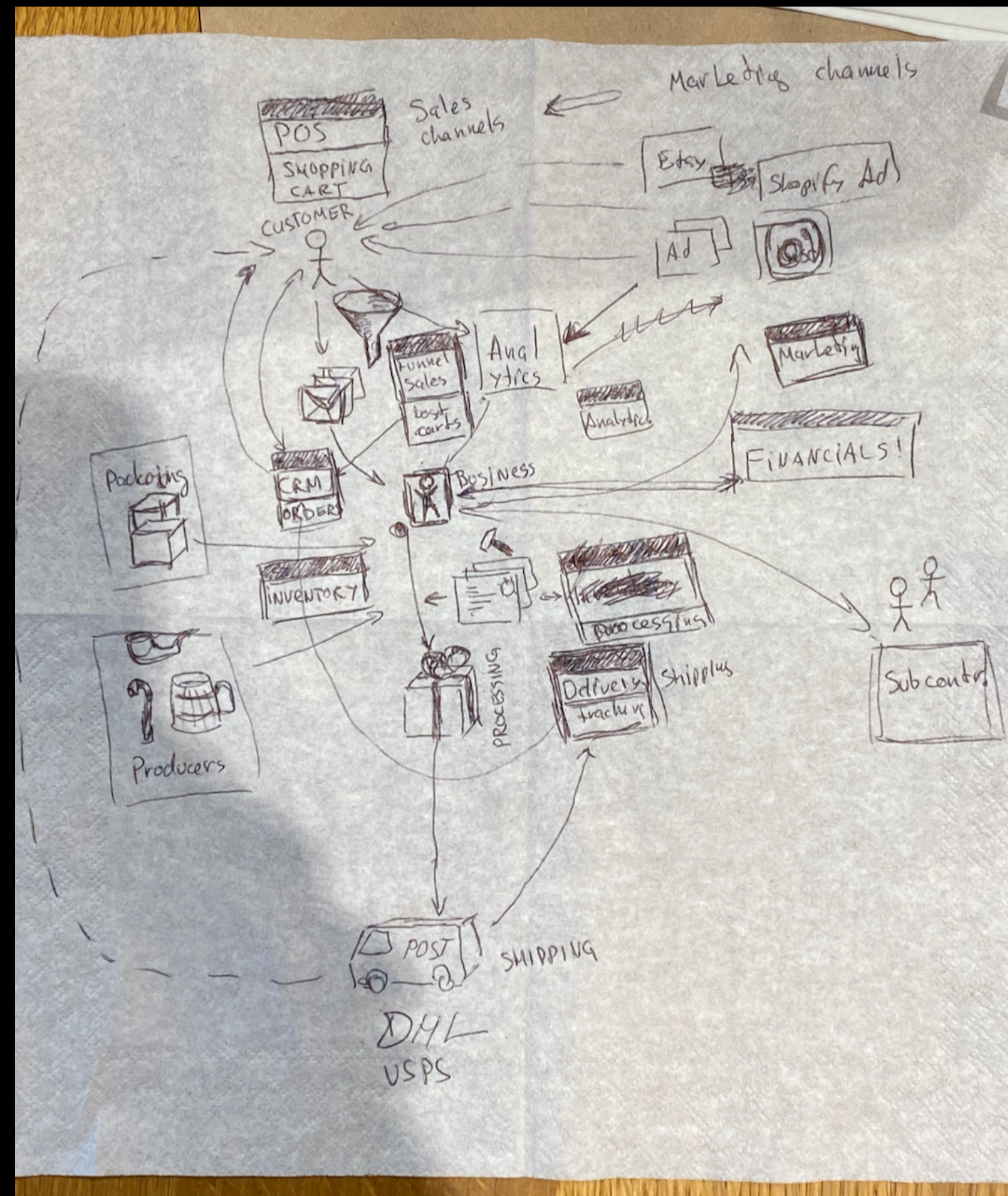
- Guides implementations
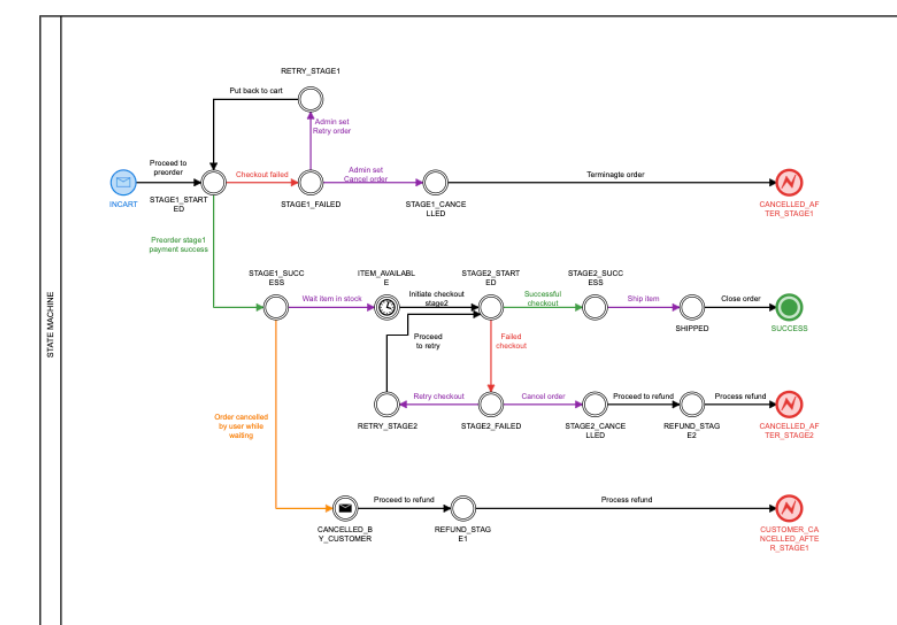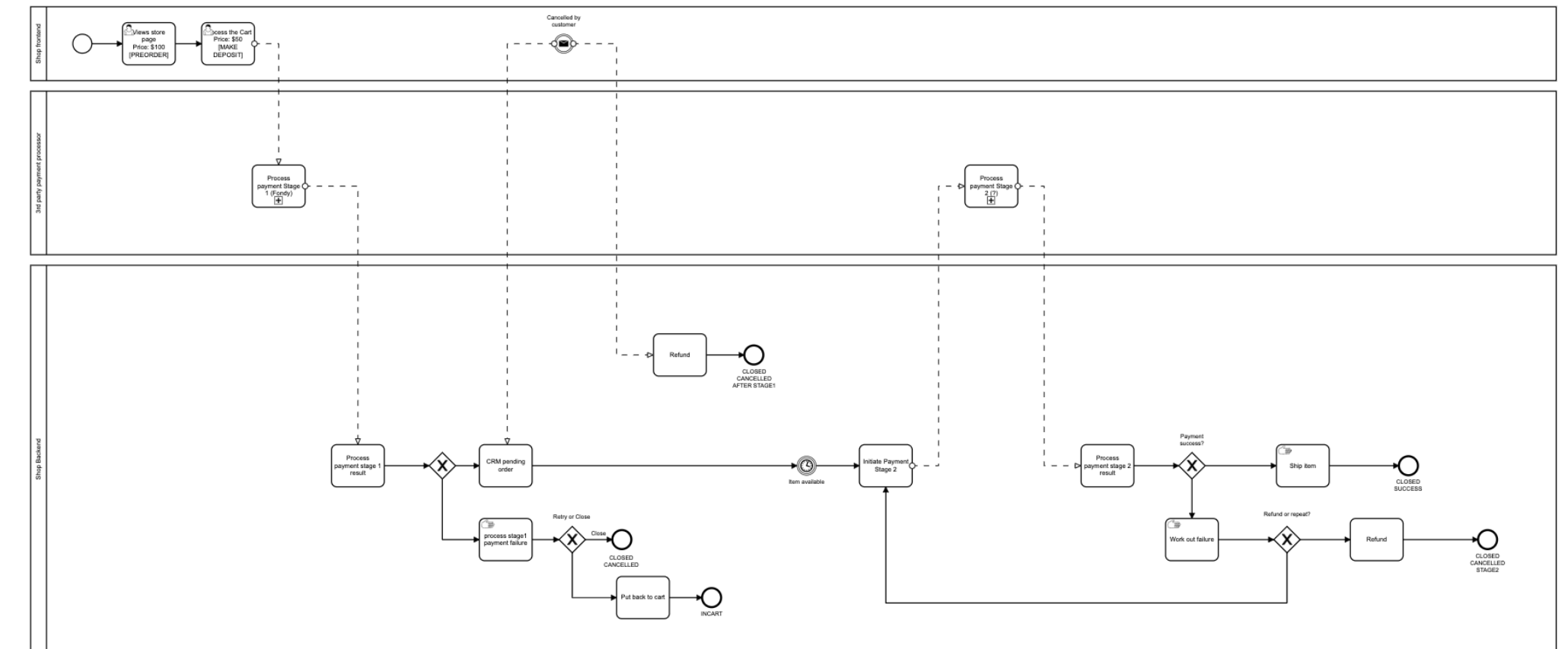
CASE 4: ARCHITECTURAL MODELS

- Target audience: architects, engineers

- A working prototype to validate the solution

- A model to do quantitative calculations against

- A blueprint for developers to start with
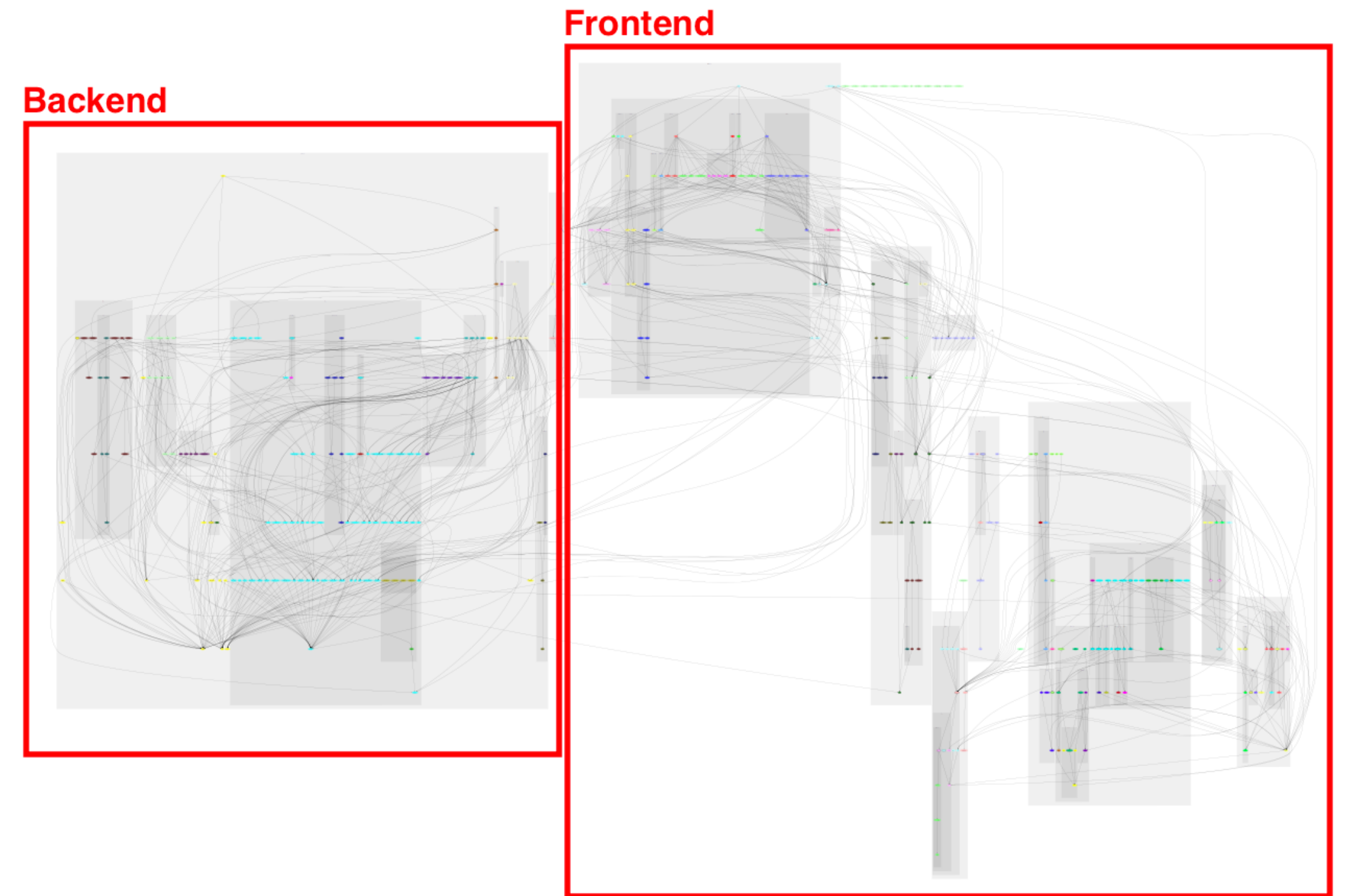
THE OBLIGATORY CASE: NAPKIN

(Q→A) → Zoom Q → Zoom A